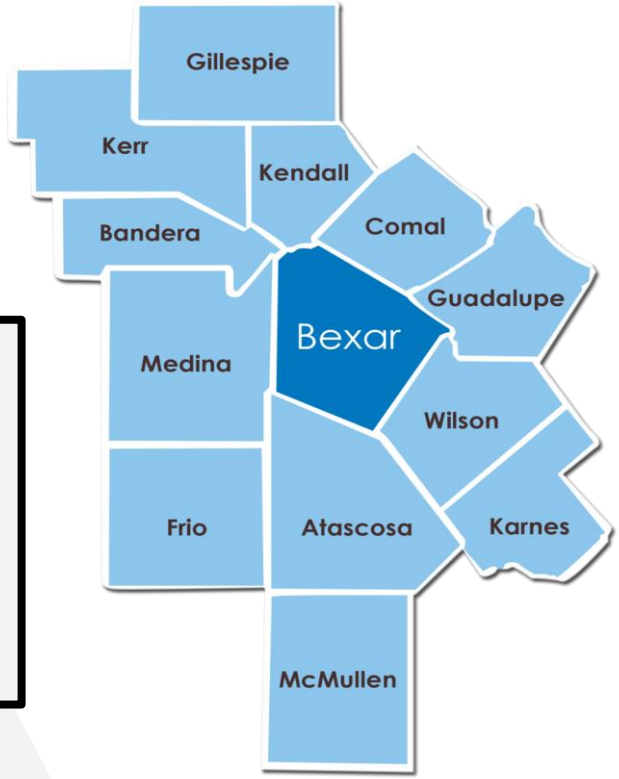
Regional and Community Programs

Who We Serve

Atascosa, Bandera, Bexar, Comal, Frio, Gillespie, Guadalupe, Karnes, Kendall, Kerr, Medina, McMullen, and Wilson counties.



AACOG serves the Alamo Area/State Planning Region 18, which covers

13 counties and 12,582 square miles.

Our area covers more land than: Maryland, Hawaii, Massachusetts, Vermont, New Hampshire, New Jersey, Connecticut and Delaware.

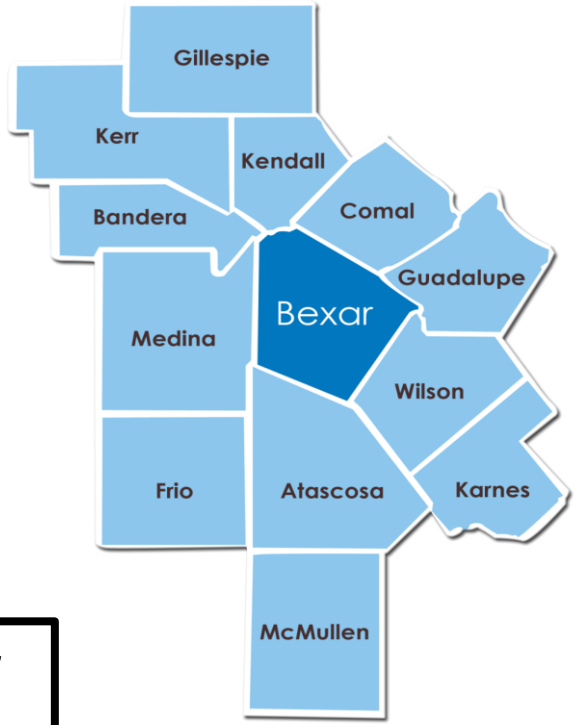
What We Do

AACOG is a **political subdivision of the State of Texas**, and was established in 1967 under Chapter 391 of the Local Government Code as

A voluntary association of local governments and organizations

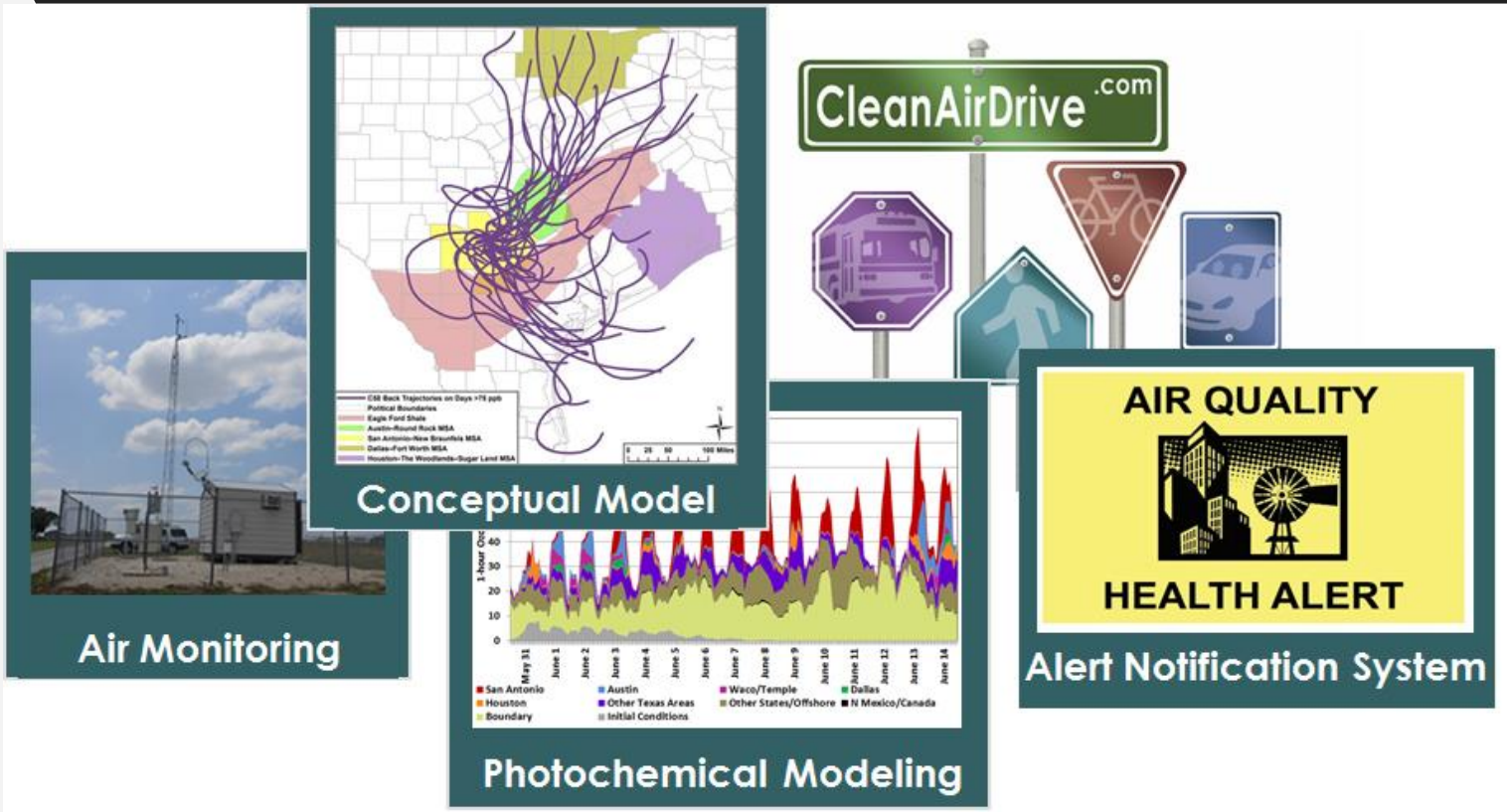
That serves its members through :

- planning,
- information, and
- coordination activities.



"BEXAR COUNTY IS BIGGER THAN 11 STATES, POPULATION-WISE,"

AACOG's Air Quality Programs

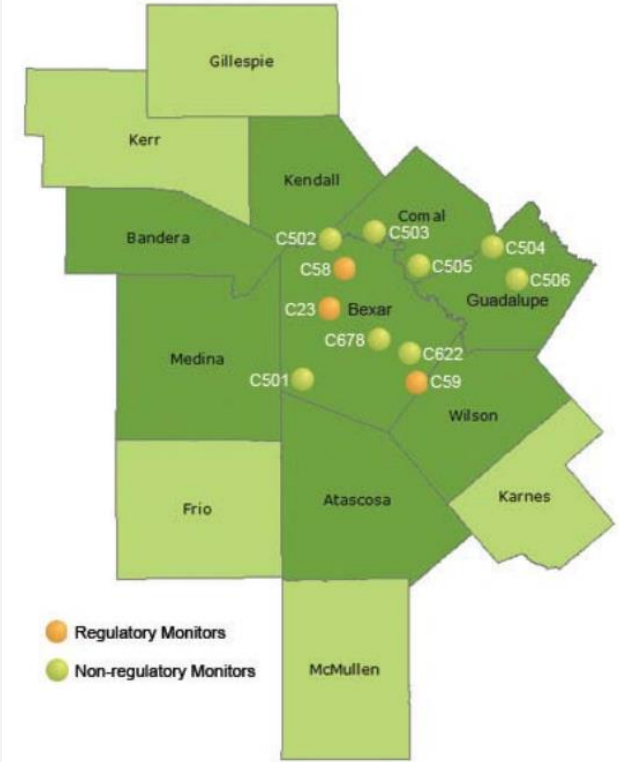


WHAT'S IN OUR AIR?

Ozone Monitors

Links to live air quality maps

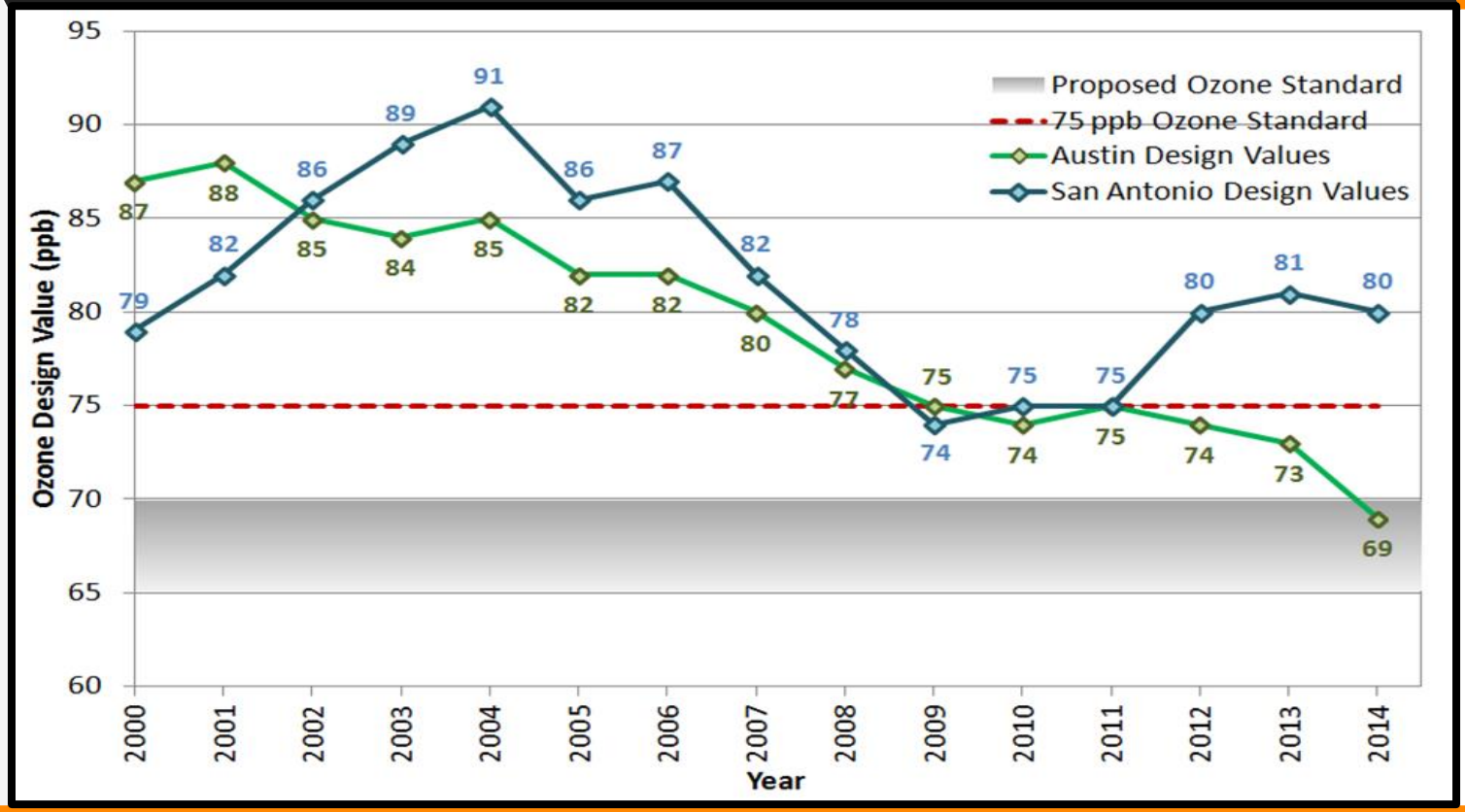
Air Monitoring – How do we detect what is in the air?



Designation / Site Name	Location Description	Data Measured	First date of reporting (online) / Currently maintained by
C23 Marshall High School	6655 Bluebird Lane San Antonio	O_3, meteorology	September 17, 1996 TCEQ
C58 Camp Bullis	Near Wilderness Road, San Antonio	NO_x, O_3, meteorology	August 12, 1998 TCEQ
C59 Calaveras Lake	14620 Laguna Road San Antonio	SO_2, NO_x, O_3, $PM_{2.5}$, meteorology	May 13, 1998 CPS San Antonio Metropolitan Health District
C678 CPS Pecan Valley	802 Pecan Valley Dr. San Antonio	CO, SO_2, NO_x, O_3, $PM_{2.5}$, meteorology	March 4, 1999 Dios Dado for CPS
C501 Elm Creek ES	11535 Pearsall Road Bexar County	O_3, meteorology	June 17, 2002 Dios Dado for AACOG
C502 Fair Oaks Ranch	7286 Dietz Elkhorn Rd, Fair Oaks Ranch	O_3, meteorology	June 28, 2002 Dios Dado for AACOG
C503 Bulverde ES	1715 E. Ammann Rd. Bulverde, Comal County	O_3, meteorology	August 26, 2002 Dios Dado for AACOG
C504 New Braunfels Airport	2090 Airport Rd. New Braunfels, Guadalupe County	Ozone	August 30, 2002 Dios Dado for AACOG
C505 Garden Ridge	21340 FM 3009 City of Garden Ridge	Ozone	March 26, 2003 Dios Dado for AACOG
C506 Seguin Outdoor Learning Center	1865 Hwy 90 East City of Seguin	Ozone	March 26, 2003 Dios Dado for AACOG
C622 Heritage Middle School	7145 Gardner Road San Antonio	CO, SO_2, NO_x, O_3, $PM_{2.5}$, meteorology	July 29, 2004 Dios Dado for CPS

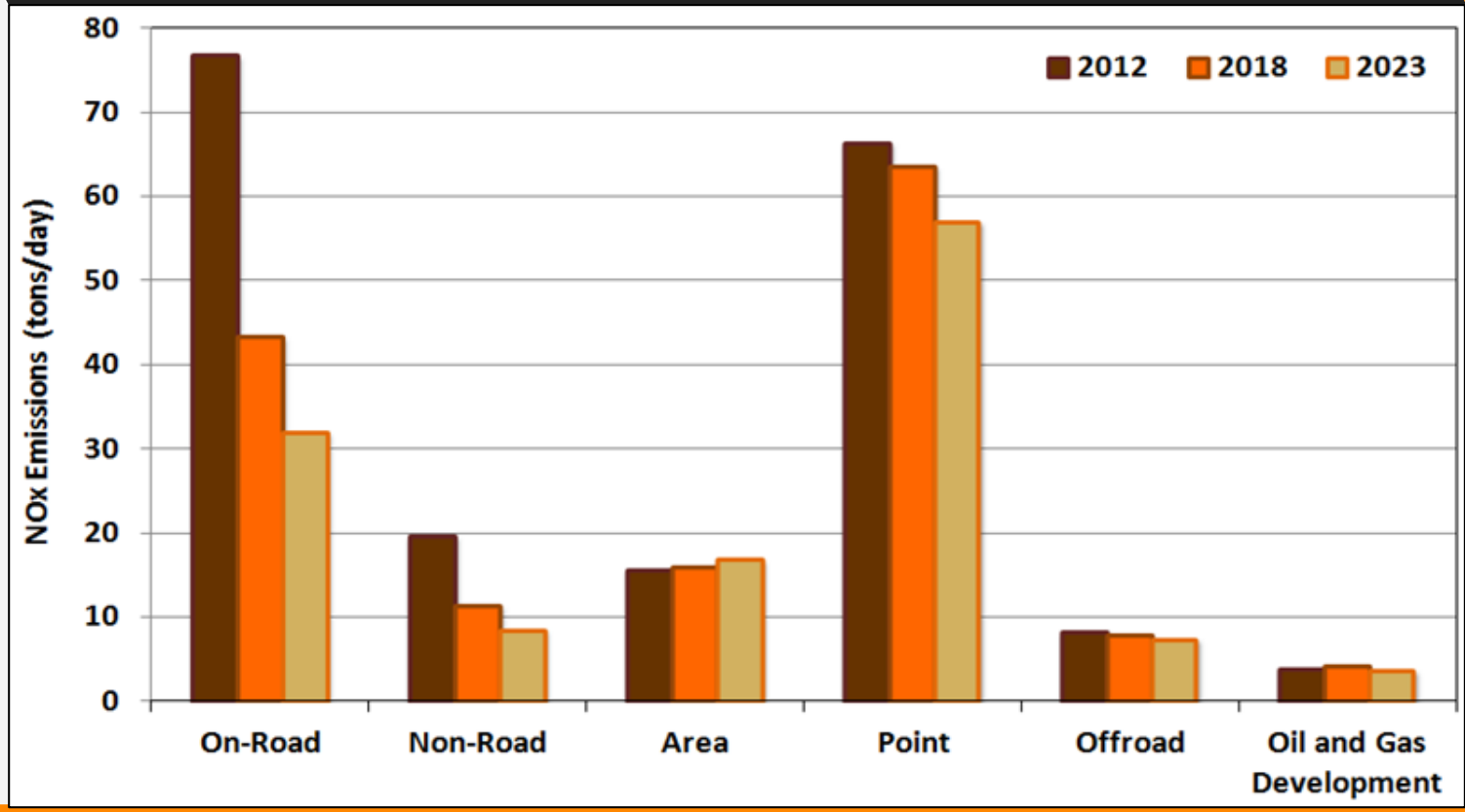
All units detect ozone – Only 3 are regulatory

Historical Context



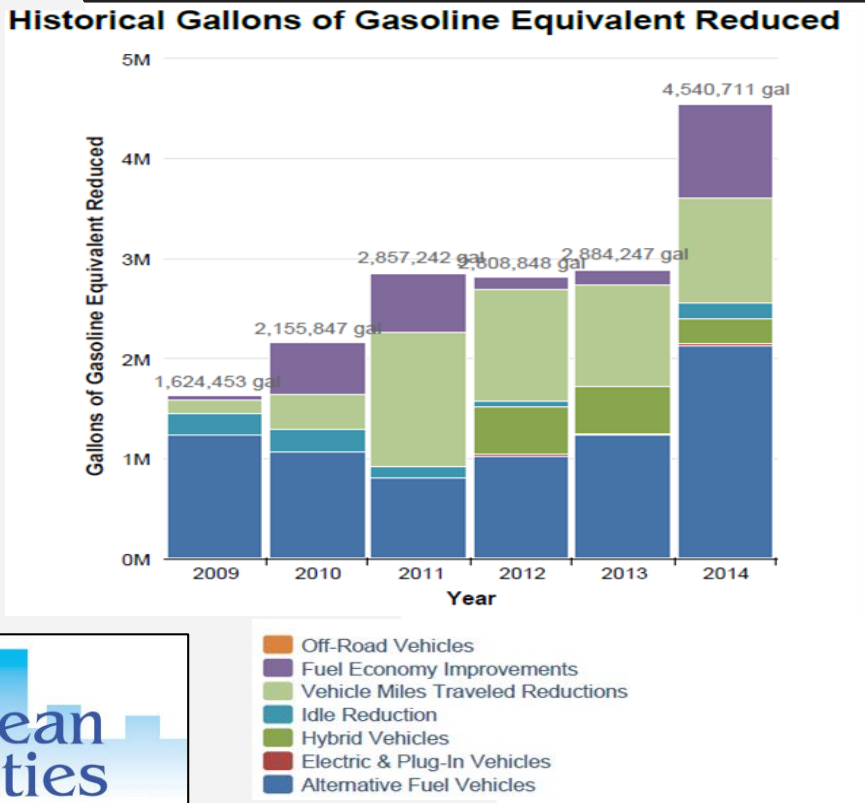
Source: San Antonio Ozone Advance Document, 2016 Update.

Where Are We Headed?



Source: San Antonio Ozone Advance Document, 2016 Update.

ALAMO AREA CLEAN CITIES COALITION

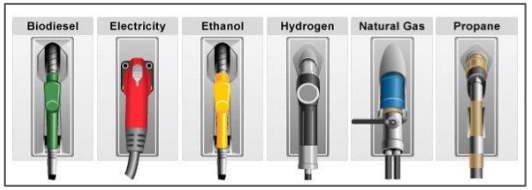


Clean Cities
U.S. Department of Energy

Texas Clean School Bus Program

TERP
TEXAS EMISSIONS REDUCTION PLAN
A PROGRAM OF THE TCEQ

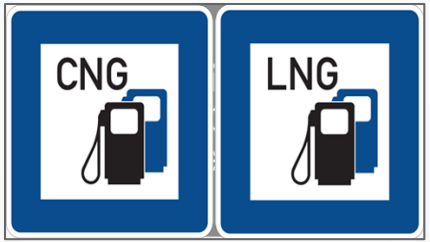
GRANT ASSISTANCE



ALTERNATIVE FUELS

SMART MOBILITY


FLAMMABLE LIQUID
3
DANGER


CNG
LNG

Solar Programs in San Antonio

•San Antonio ranked #1 in Texas and #7 in the US for solar capacity

"CPS Energy, through power purchase agreements with operators from across the country, has nine solar farms generating 230 megawatts of renewable power – the most in Texas."

Roofless Solar – Clean Energy Collective 1.2MW Farm (11,280 panels)
Schertz Texas Solar Purchase

Low income Solar Roof Lease

Solar Rebate – Funds running low. Next Steps for local solar?

AACOG's Weatherization Assistance Program

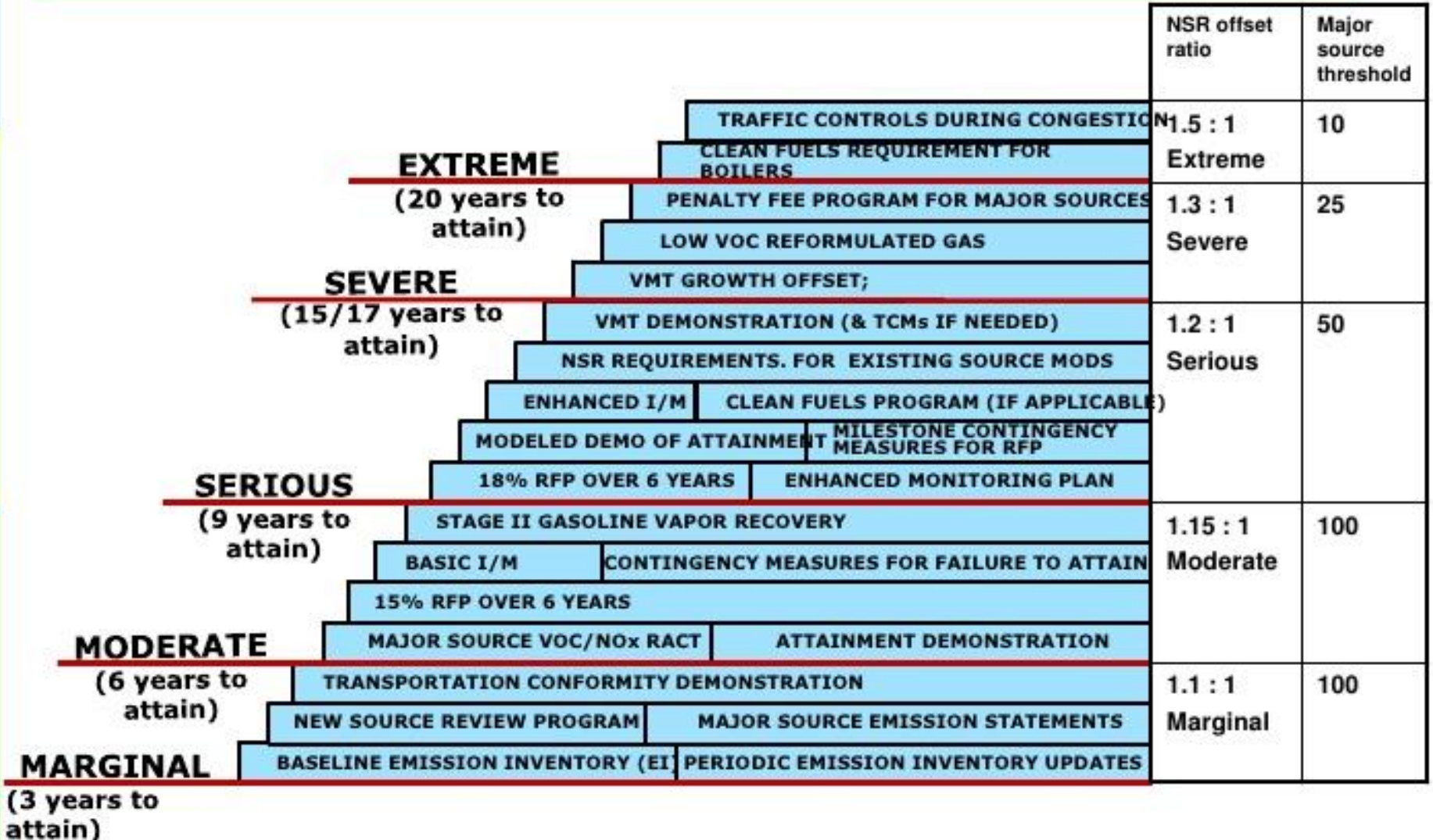
Income Eligibility → Energy Audit → Installation → Final Inspection

*applicant's household income must meet federal income requirements. (125%)

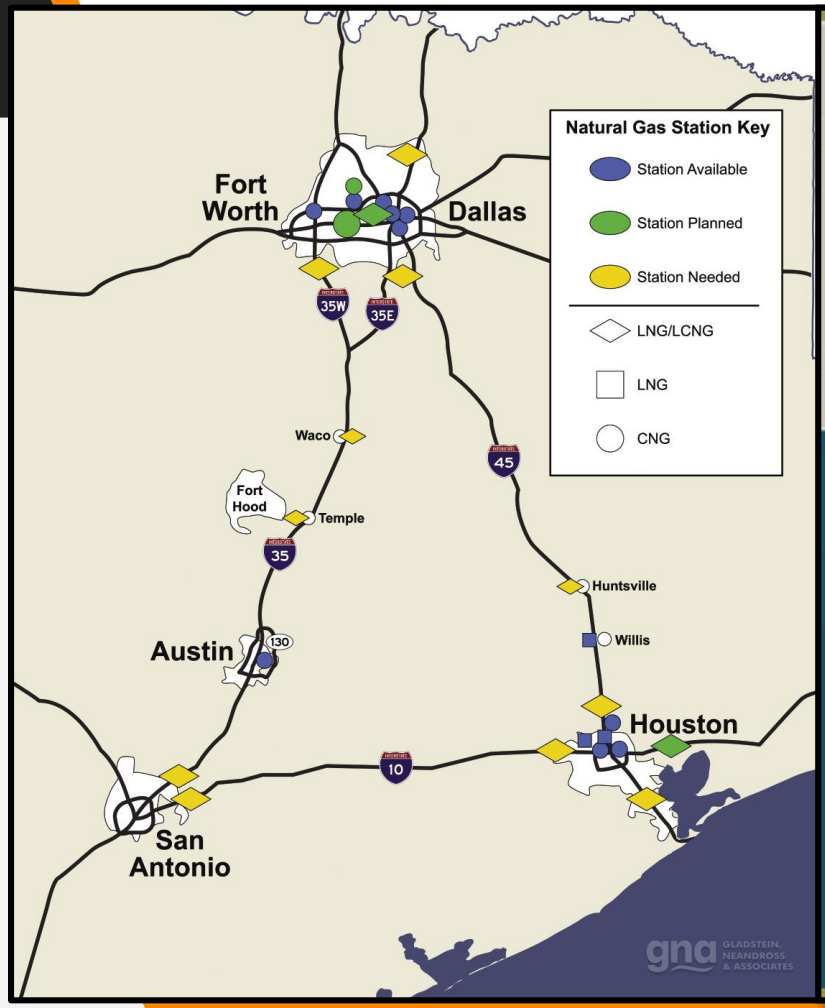
Available in All AACOG counties: Atascosa, Bandera, Bexar, Comal, Frio, Gillespie, Guadalupe, Karnes, Kendall, Kerr, Medina, and Wilson Counties!

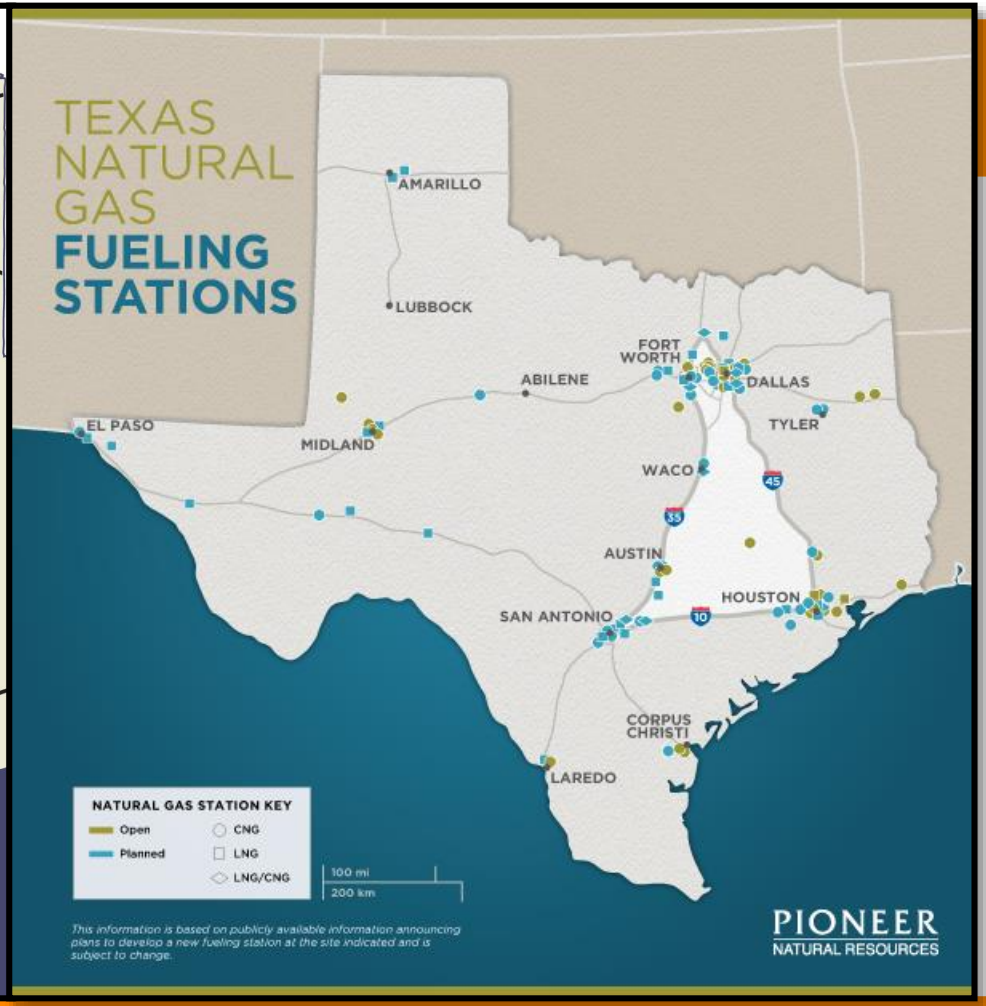
Services available: Advanced Energy Audit, Insulation upgrades, installation of gas appliances, repair/replace windows, weather stripping and caulking.

More info at aacog.com


NSR offset ratio
Major source threshold
TRAFFIC CONTROLS DURING CONGESTION
CLEAN FUELS REQUIREMENT FOR BOILERS
1.5 : 1
Extreme
10
EXTREME
(20 years to attain)
PENALTY FEE PROGRAM FOR MAJOR SOURCES
LOW VOC REFORMULATED GAS
1.3 : 1
Severe
25
SEVERE
(15/17 years to attain)
VMT GROWTH OFFSET;
VMT DEMONSTRATION (& TCMs IF NEEDED)
NSR REQUIREMENTS. FOR EXISTING SOURCE MODS
ENHANCED I/M
CLEAN FUELS PROGRAM (IF APPLICABLE)
MODELED DEMO OF ATTAINMENT
MILESTONE CONTINGENCY MEASURES FOR RFP
18% RFP OVER 6 YEARS
ENHANCED MONITORING PLAN
1.2 : 1
Serious
50
SERIOUS
(9 years to attain)
STAGE II GASOLINE VAPOR RECOVERY
BASIC I/M
CONTINGENCY MEASURES FOR FAILURE TO ATTAIN
15% RFP OVER 6 YEARS
MAJOR SOURCE VOC/NOx RACT
ATTAINMENT DEMONSTRATION
1.15 : 1
Moderate
100
MODERATE
(6 years to attain)
TRANSPORTATION CONFORMITY DEMONSTRATION
NEW SOURCE REVIEW PROGRAM
MAJOR SOURCE EMISSION STATEMENTS
BASELINE EMISSION INVENTORY (EI
PERIODIC EMISSION INVENTORY UPDATES
1.1 : 1
Marginal
100
MARGINAL
(3 years to attain)

Central Texas Corridor


Natural Gas Station Key
Station Available
Station Planned
Station Needed
LNG/LCNG
LNG
CNG
Fort Worth
Dallas
35W
35E
Waco
45
Fort Hood
Temple
35
Huntsville
Willis
Austin
130
Houston
10
San Antonio
gna
GLADSTEIN, NEANDROSS & ASSOCIATES


TEXAS NATURAL GAS FUELING STATIONS
AMARILLO
LUBBOCK
FORT WORTH
DALLAS
ABILENE
TYLER
EL PASO
MIDLAND
WACO
45
35
AUSTIN
HOUSTON
SAN ANTONIO
10
CORPUS CHRISTI
LAREDO
NATURAL GAS STATION KEY
Open
Planned
CNG
LNG
LNG/CNG
100 mi
200 km
This information is based on publicly available information announcing plans to develop a new fueling station at the site indicated and is subject to change.
PIONEER
NATURAL RESOURCES

★ TEXAS CLEAN TRANSPORTATION TRIANGLE ★

BY THE NUMBERS

The fastest growing natural gas transportation corridor in the nation

ENCOMPASSES **700** MILES

IS HOME TO **MORE THAN** **10%** OF THE **NATION'S TRAFFIC**

LINKS **5** OF THE **20** **LARGEST CITIES** in the nation with NGV fueling stations

87 **CNG and LNG FUELING STATIONS OPEN**

34 new fueling stations planned

CONTRIBUTES **OVER** **$135 MILLION** to the Texas economy

&

SUPPORTS **NEARLY** **1,000** **CLEAN-FUEL TECH JOBS**

↓ **30%** **LOWER FUEL COSTS** for natural gas fleets

30+ **COMPANIES** with fleets in Texas plan to or have already moved their fleets to natural gas

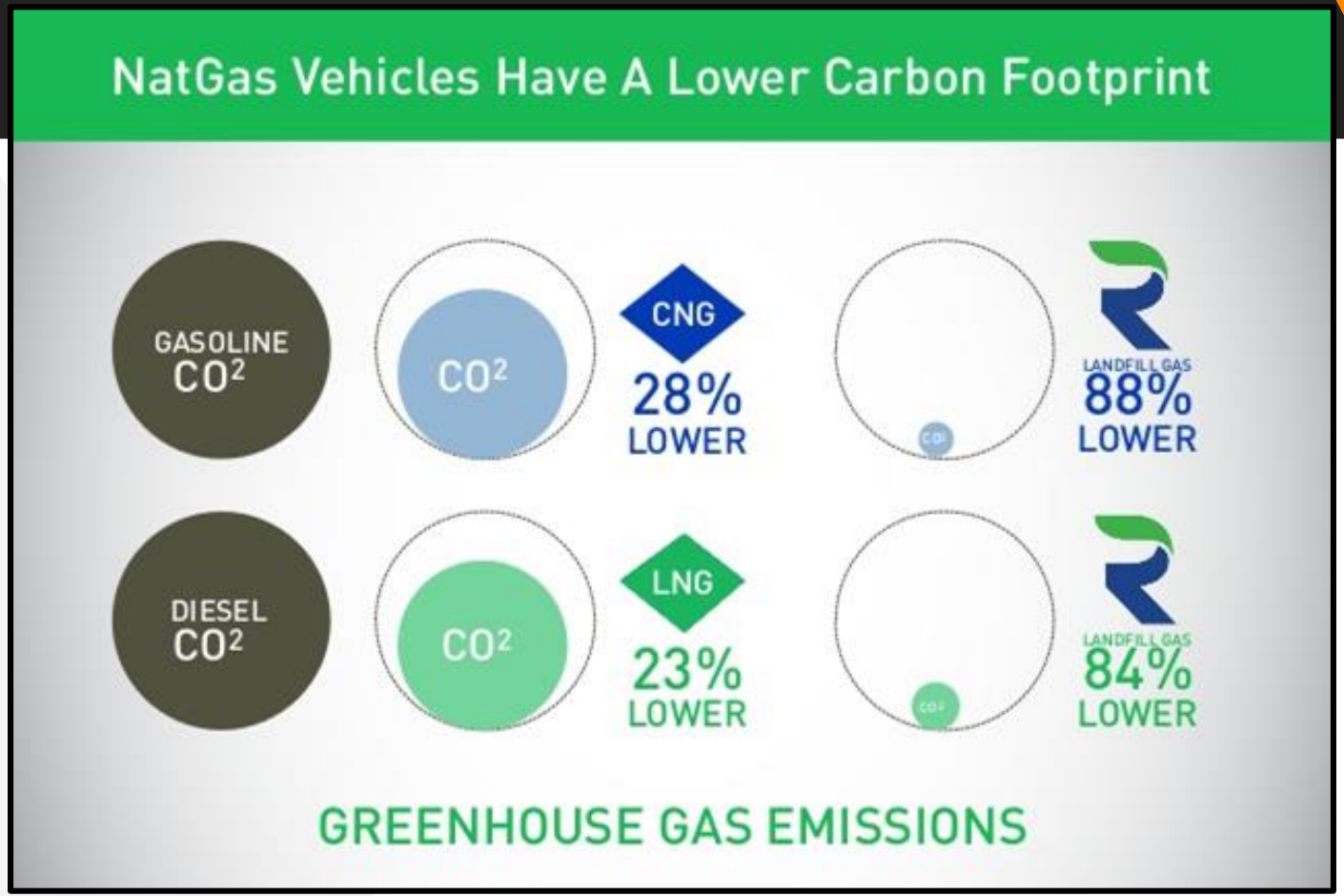
Emissions benefits of the TCTT are the annual equivalent of taking

+175,000 CARS off Texas highways

★ TexasNaturalGasNow.com
TexNatGas
@TexNatGas

TEXAS NATURAL GAS NOW

A project of anga America's Natural Gas Alliance


NatGas Vehicles Have A Lower Carbon Footprint
GASOLINE
CO2
CO2
CNG
28%
LOWER
LANDFILL GAS
88%
LOWER
DIESEL
CO2
CO2
LNG
23%
LOWER
LANDFILL GAS
84%
LOWER
GREENHOUSE GAS EMISSIONS

NatGas Vehicles Have A Lower Carbon Footprint

REDUCING VEHICLE EMISSIONS WITH CHEMISTRY

Millions of Volkswagen cars have been found to emit up to 40 times more nitrogen oxides in normal operation than they did during emissions testing, miring the company in controversy. This graphic looks at the devices present in a vehicle to help reduce pollution, and how they work.

POLLUTING COMPOUNDS

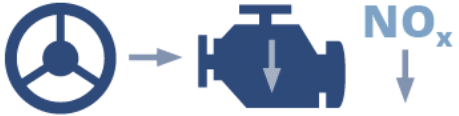
NO_x — NITROGEN OXIDES (E.G. NITRIC OXIDE, NITROGEN DIOXIDE)

CO — CARBON MONOXIDE

HC — UNBURNT HYDROCARBONS (FROM FUEL)

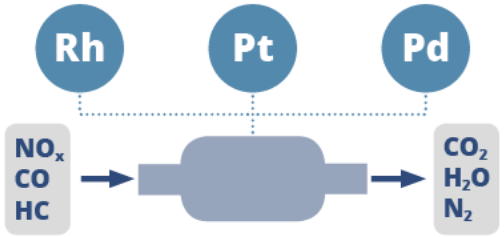
THE 'DEFEAT DEVICE'

The 'defeat device' found in Volkswagen cars is not a physical device, but a piece of software that detects when the car is being tested. When it detected this, it tuned the engine's performance reducing the NO_x emissions. In normal driving conditions they were much higher.



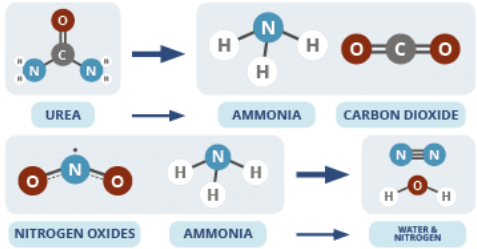
The car detected when it was in test conditions (potentially by monitoring steering wheel movement or traction control deactivation).

CATALYTIC CONVERTERS



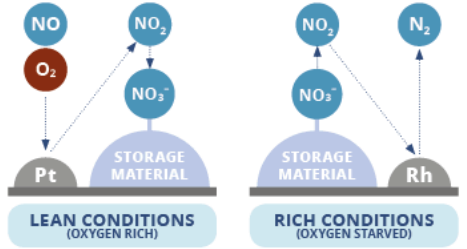
Three-way catalytic converters are present in all petrol-powered cars, and help remove carbon monoxide, unburnt hydrocarbons, and nitrogen oxides. They contain precious metals such as rhodium, platinum, and palladium to accomplish this. Three-way catalytic converters can't be used in diesel engines, as diesel's oxygen-rich exhaust gases make their removal of NO_x inefficient.

SELECTIVE CATALYTIC REDUCTION



Selective catalytic reduction (SCR) is a method for NO_x removal that is utilised in some diesel engines. It involves the injection of urea into the exhaust stream of the vehicle, where it produces ammonia, which is adsorbed onto a catalyst. The ammonia can then react with the nitrogen oxides in the exhaust stream to produce nitrogen and water. SCR is capable of achieving NO_x reductions of up to 90%.

NO_x ADSORBERS



NO_x adsorbers can also be used in diesel engines. The majority of NO_x emissions from the diesel engines are NO, and this is converted to NO_2 by reaction with oxygen using a platinum catalyst. The NO_2 is then absorbed in the form of nitrates by the storage material (often barium oxide). Once the trap is full, the nitrate can be desorbed, converted to nitrogen over a rhodium catalyst, and released.

WHAT CONSUMERS WERE TOLD THEY WERE GETTING

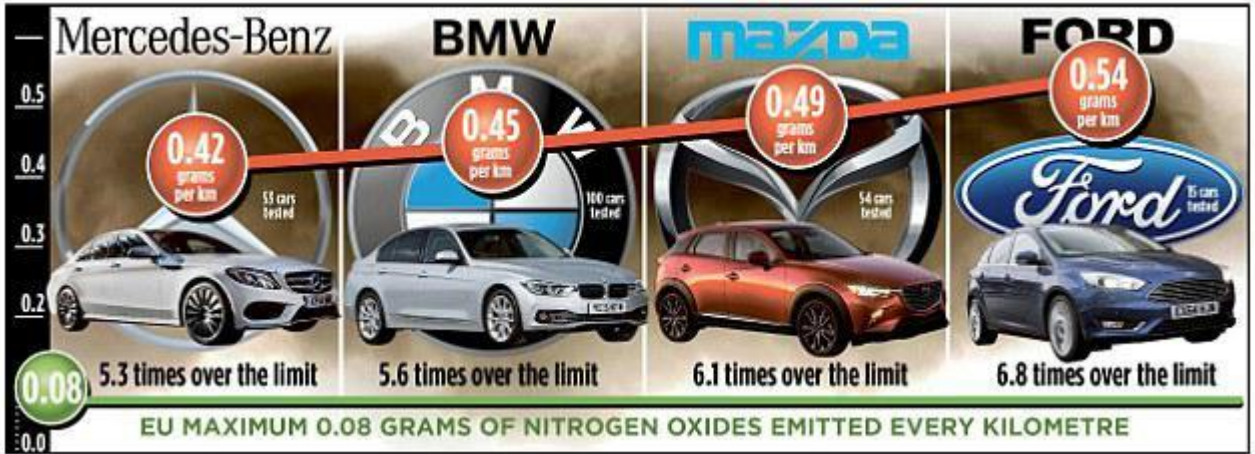
HONDA CIVIC EQUIVALENT

0.48 kilograms of nitrogen oxide per year

WHAT CONSUMERS ACTUALLY GOT

20 FORD F-450 SUPER DUTY TRUCKS

84.0 kilograms of nitrogen oxide per year



Volkswagen Emissions Cheating Scandal

$14.7 Billion Total

$10Billion to buy back cars
+ $2.7Billion NOx Reducing
+ $2Billion EV infrastructure

$2.7 Billion over 3 years for Mitigation Actions.

Eligible Vehicle Classes/Equipment:

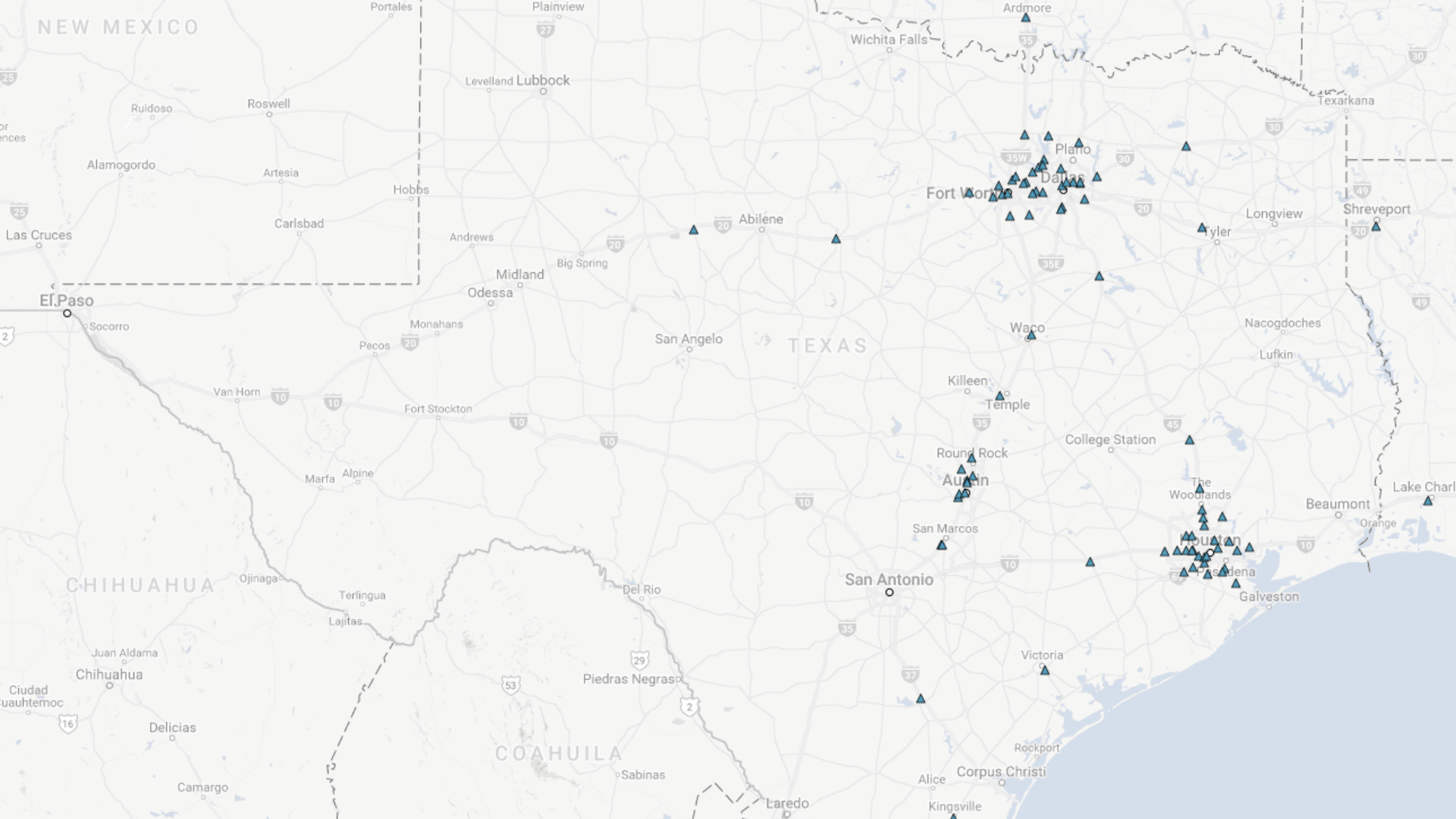
Class 8 Local Freight Trucks, Port Drayage Trucks
Class 4-8 School, Shuttle or Transit Bus
Freight Switchers
Ferries/Tugboats (marine)
Ocean Going Vessels Shorepower
Class 4-7 Local Freight Trucks (Medium Trucks)
Airport Ground Support Equipment
Forklifts
LD ZEV Supply Equipment
L1, L2 or fast charging equipment
LD hydrogen fuel cell vehicle supply equipment

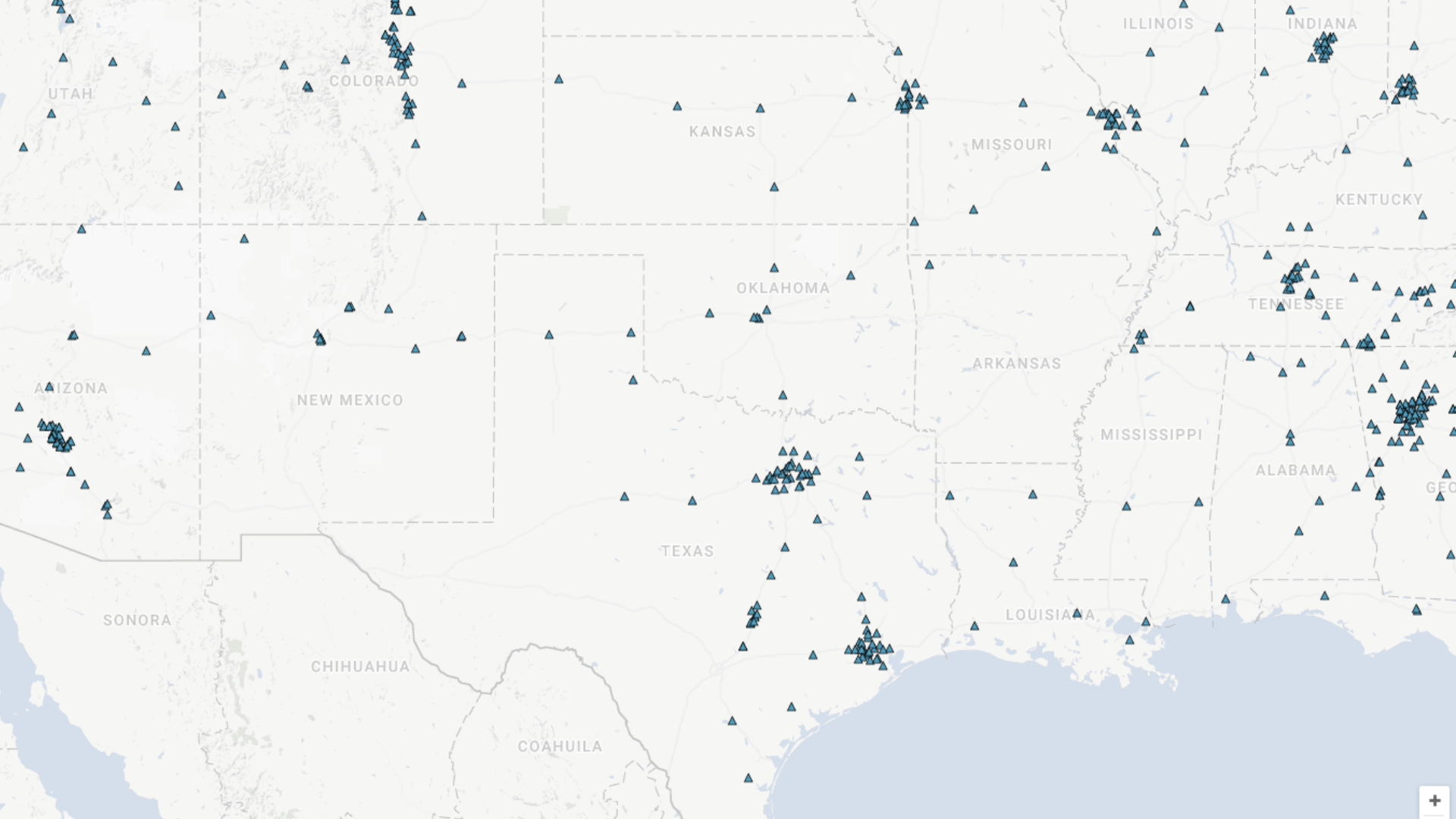
$2 Billion ZEV Investment Commitment over 10years

National ZEV Investment Plan

Developed by VW et al.; approved by EPA, which has sole authority for making decisions.

$1.2 Billion in four 30 month investment cycles for U.S., except California


NEW MEXICO
Portales
Plainview
Levelland
Lubbock
Ruidoso
Roswell
Alamogordo
Artesia
Hobbs
Carlsbad
Las Cruces
Andrews
Big Spring
Midland
Odessa
El Paso
Socorro
Monahans
Pecos
San Angelo
TEXAS
Van Horn
Fort Stockton
Marfa
Alpine
CHIHUAHUA
Ojinaga
Terlingua
Lajitas
Juan Aldama
Chihuahua
Ciudad Cuauhtemoc
Delicias
Camargo
COAHUILA
Sabinas
Laredo
Del Rio
Piedras Negras
San Antonio
Ardmore
Wichita Falls
Texarkana
Plano
Dallas
Fort Worth
Abilene
Longview
Tyler
Shreveport
Waco
Nacogdoches
Lufkin
Killeen
Temple
College Station
Round Rock
Austin
San Marcos
The Woodlands
Beaumont
Orange
Lake Charl
Galveston
Victoria
Rockport
Corpus Christi
Alice
Kingsville


ILLINOIS
INDIANA
UTAH
COLORADO
KANSAS
MISSOURI
KENTUCKY
OKLAHOMA
TENNESSEE
ARKANSAS
ARIZONA
NEW MEXICO
MISSISSIPPI
ALABAMA
TEXAS
LOUISIANA
SONORA
CHIHUAHUA
COAHUILA

OBAMA ADMINISTRATION Fuel Economy Standards

In the year 2025

The fleet-wide average will be

54.5 MPG

Consumers will have saved

$1.7 TRILLION

at the pump over the life of the program.

A family that purchases a new vehicle in 2025 will save

$8,200

in fuel costs when compared with a similiar vehicle in 2010.

Over the life of the program, the standards will:

Save **12** billion barrels of oil.

Eliminate **6** billion metric tons of carbon dioxide pollution.

This program, together with standards already put into place by this administration for Model Years 2011-2016, will result in significant cost savings for consumers at the pump, dramatically reduce oil consumption, cut pollution and create jobs.

Smartphone QR Code™

WHITEHOUSE.GOV